

**GEOGRAPHICAL POSITION EXTENSION IN  
MESSAGING FOR A TERMINAL NODE**

**ABSTRACT**

The present invention provides methods and apparatus for supporting geographical-based services in a communications system. In an embodiment of the invention, a terminal node (e.g., a wireless terminal) inserts geographical information into a header portion of an IPv6 datagram. The serving network utilizes the geographical information to support a geographical-based service. In another embodiment, a terminal node, which is located in a geographical area, receives service configuration information regarding service regions from a serving network and determines what services are supported in the geographical area. In an embodiment, header formats for the inserted geographical information in a propagated signal between a terminal node and a serving network are provided.